

ABSTRACT OF THE DISCLOSURE

A communication node comprises a backplane transmission circuit capable of accomplishing
5 transmission of a signal between communication units installed in a plurality of slots and a signal waveform control unit for controlling a waveform of the signal in accordance with a transmission distance of the signal between the communication units in the backplane
10 transmission circuit. This arrangement achieves stable fast backplane transmission of a main signal without increasing the degree of parallelism for the main signal, thus realizing a high-extensibility small-sized communication node capable of dealing with as a very-
15 high large-capacity bit rate as 40 Gbps, 160 Gbps or a bit rate exceeding these values.